



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/S/W.No.02/CSR-05/043a/CEMENT/2016-17

Date: 20.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* AGENCY	: Mr. Sambhashivareddy, No.14, 6 th C cross, Gopalappa Layout, Manorayanapalya, Bangalore.
* NAME OF THE WORK	: Construction of Culverts at Yelahanka old town area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* REFERENCE	: EE(YNK.D)E-PMT-3/W.O/69/2016-17 Dated: 19.05.2016
SAMPLE ID	: Cement- Sample 1
SAMPLE RECEIVED ON	: 19.05.2016
PERIOD OF TESTING	: 19.05.2016 to 20.05.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer



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Job No.: CTCE/BBMP/S/W.No.02/CSR-05/043a/SAND-Gradation/2016-17

: 20.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

* Agency : Mr. Sambhashivareddy,
No.14, 6th C cross, Gopalappa Layout, Manorayanapalya, Bangalore.

* Name of Work : Construction of Culverts at Yelahanka old town area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : EE(YNK.D)E-PMT-3/W.O/69/2016-17 Dated: 19.05.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates- Sample 1

Sample Received on : 19.05.2016

Date of Testing : 20.05.2016



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.50	90-100	90-100	90-100	95-100
2.36	70.50	60-95	75-100	85-100	95-100
1.18	45.50	30-70	55-90	75-100	90-100
600 Micron	24.50	15-34	35-59	60-79	80-100
300 Micron	9.50	5-20	8-30	12-40	15-50
150 Micron	1.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/S/W.No.02/CSR-05/043a/AGG/GR/2016-17

: 20.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

* Agency : Mr. Sambhashivareddy,
No.14, 6th C cross, Gopalappa Layout, Manorayanapalya, Bangalore.

* Name of Work : Construction of Culverts at Yelahanka old town area in Ward No.02 of
Yelahanka Sub Division, BBMP, Bangalore.

Reference : EE(YNK.D)E-PMT-3/W,O/69/2016-17 Dated: 19.05.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)- Sample 1

Sample Received on : 19.05.2016

Date of Testing : 20.05.2016



Total Wt. of Aggregates in gms= 7000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.86	95-100	85-100
20	52.00	30-70	0-20
10	22.00	10-35	0-5
4.75	3.14	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/S/W.No.02/CSR-05/043a/CUBE/2016-17

19.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

* Agency : Mr. Sambhashivareddy,
No.14, 6th C cross, Gopalappa Layout, Manorayanapalya, Bangalore.

* Name of the work : Construction of Culverts at Yelahanka old town area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

* Reference : EE(YNK.D)E-PMT-3/W.O/69/2016-17 Dated: 19.05.2016

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 19.06.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	22.05.2016	19.06.2016	8.188	470.3	20.90
2	22.05.2016	19.06.2016	8.210	485.2	21.56
3	22.05.2016	19.06.2016	8.250	491.3	21.84

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Job No.: CTCE/BBMP/S/W.No.02/CSR-05/043a/CUBE/2016-17

19.06.2016

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- * Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
- * Agency : Mr. Sambhashivareddy,
No.14, 6th C cross, Gopalappa Layout, Manorayanapalya, Bangalore.
- * Name of the work : Construction of Culverts at Yelahanka old town area in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
- * Reference : EE(YNK.D)E-PMT-3/W.O/69/2016-17 Dated: 19.05.2016
- * Sample ID : Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day



Sample Received on : 19.06.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	22.05.2016	19.06.2016	8.199	475.3	21.12
2	22.05.2016	19.06.2016	8.250	486.3	21.61
3	22.05.2016	19.06.2016	8.310	493.9	21.95

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- * Reference : EE(YNK.D)E-PMT-3/W.O/69/2016-17 Dated: 19.05.2016
- * Sample ID : Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day
- Sample Received on : 19.06.2016



SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	22.05.2016	19.06.2016	8.205	476.3	21.17
2	22.05.2016	19.06.2016	8.215	490.9	21.82
3	22.05.2016	19.06.2016	8.320	502.2	22.32

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* Reference : EE(YNK.D)E-PMT-3/W.O/69/2016-17 Dated: 19.05.2016

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

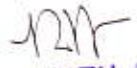
Sample Received on : 19.06.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	22.05.2016	19.06.2016	8.199	485.2	21.56
2	22.05.2016	19.06.2016	8.230	492.6	21.89
3	22.05.2016	19.06.2016	8.290	505.3	22.46

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Job No.: CTCE/BBMP/S/W.No.02/STEEL/2016-17

20.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Yelahanka Sub Division,
BBMP, Bangalore.

Agency : Mr. Sambhashivareddy,
No.14, 6th C cross, Gopalappa Layout,
Manorayanapalya, Bangalore.

Name of the work : Construction of Culverts at Yelahanka old town area
in Ward No.02 of Yelahanka Sub Division, BBMP,
Bangalore.

Reference : EE(YNK.D)E-PMT-3/W.O/69/2016-17
Dated: 19.05.2016

Date of Test : 20.05.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.15	O.K	O.K

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